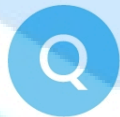




QUIZZES

Practice Test-1(Liquids)



10 Questions



7 min

Topics

Properties of liquids, Intermolecular forces (Van DER WAAL's Forces)

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

06 : 58



1/10



7 min



Hint

Q : London dispersion forces are strongest in



F_2



Cl_2



Br_2



I_2

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 57



2/10



7 min



Hint

Q : Which of the followings does not match

A

H_2O and Na^+ \longrightarrow Ion dipole force

B

CH_3COCH_3 and CH_3COCH_3 \longrightarrow dipole-dipole force

C

HCl and Ar \longrightarrow Dipole-dipole force

D

$\text{C}_6\text{H}_{12}\text{O}_6$ and H_2O \longrightarrow Hydrogen bonding

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 55



3/10



7 min



Hint

Q : A substance that is soluble in water due to dipole-induced dipole force



$C_6H_{12}O_6$



HCl



Kr



H_2S

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 54



4/10



7 min



Hint

Q : The polarizabilities of elements mostly increase down the group due to the



Increase in the atomic number



Increase in the number of shell



Increase in the number of protons



The behaviour of element remains the same

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 53



5/10



7 min



Hint

Q : Which of the following inter molecular forces may be present in molecular solids



Dipole – dipole forces



Van der Waal's forces



H- bonding



All of the these

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 51



6/10



7 min



Hint

Q : Which liquid will boil at lower temperature



Benzene



Ethanol



Acetic acid



Acetone

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 50



7/10



7 min



Hint

Q : Molar heat of vapourization is the highest for



Chlorine



Bromine



Iodine



Fluorine

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 49



8/10



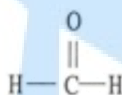
7 min



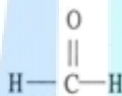
Hint

Q : Which one of the following substances will have hydrogen bonding as one of its intermolecular forces among itself

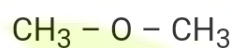
A



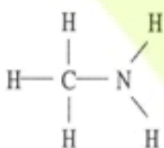
B



C



D



SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 47



9/10



7 min



Hint

Q : The inter-molecular attractive forces vary in the order



Water < alcohol < ether



Alcohol < water < ether



Ether < alcohol < water



Ether < water < Alcohol

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 44



10/10



7 min



Hint

Q : Which property of liquids leads to the development of thermometers



Pressure variation of liquids with temperature



Liquids are visible



Expansion of liquid at high temperature



Liquid can not be compressed

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

2

3

4

5

6

7

8

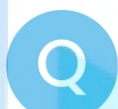
9

10



QUIZ RESULT

Practice Test-1(Liquids)



10



7 min



11-Apr-2021



0 sec



0/10



0.0%

Result Detail

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

| | |
|-------------|----|
| Correct | 0 |
| Incorrect | 0 |
| Unattempted | 10 |

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745



Chemistry

0%



Practice Test-1(Liquids)



Correct



Unattempted



Incorrect



1/10

Q : London dispersion forces are strongest in

A

F_2

B

Cl_2

C


Br_2

D

I_2

Explanation

London dispersion forces are strongest in I_2 .

London dispersion forces  polarizability

I_2 is more polarizable due to large size of molecule so it is solid at room temperature.

Intermolecular forces or polarizability order

$I_2 > Br_2 > Cl_2 > F_2$



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Liquids)



Correct



Unattempted



Incorrect



2/10

Q : Which of the followings does not match

A

H_2O and Na^+ \longrightarrow Ion dipole force

B

CH_3COCH_3 and CH_3COCH_3 \longrightarrow dipole-dipole force

C

HCl and Ar \longrightarrow Dipole-dipole force

D

$\text{C}_6\text{H}_{12}\text{O}_6$ and H_2O \longrightarrow Hydrogen bonding

Explanation

HCl and Ar \longrightarrow Dipole - induced dipole force

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Liquids)



Correct



Unattempted



Incorrect



3/10

Q : A substance that is soluble in water due to dipole-induced dipole force

A

$C_6H_{12}O_6$

B

HCl

C

Kr

D

H_2S

Explanation

Krypton is non-polar so soluble in water due to dipole – induce dipole forces.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Liquids)



Correct



Unattempted



Incorrect



4/10

Q : The polarizabilities of elements mostly increase down the group due to the

A

Increase in the atomic number

B

Increase in the number of shell

C

Increase in the number of protons

D

The behaviour of element remains the same

Explanation

Polarizability is directly related to size of electronic cloud

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Liquids)



Correct



Unattempted



Incorrect



5/10

Q : Which of the following inter molecular forces may be present in molecular solids

A

Dipole – dipole forces

B

Van der Waal's forces

C

H- bonding

D

All of the these

Explanation

Types of molecules polar and non-polar molecules solid and all type of forces present between molecules solid.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Liquids)



Correct



Unattempted



Incorrect



6/10

Q : Which liquid will boil at lower temperature

A

Benzene

B

Ethanol

C

Acetic acid

D

Acetone

Explanation

Acetone has weaker forces of attraction among all of given compounds

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Liquids)



Correct



Unattempted



Incorrect



7/10

Q : Molar heat of vapourization is the highest for

A

Chlorine

B

Bromine

C

Iodine

D

Fluorine

Explanation

Greater the size of molecule, greater the polarizability, greater the forces of attractions hence greater the heat of vapourization

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Liquids)



Correct



Unattempted



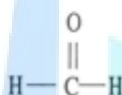
Incorrect



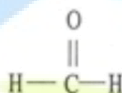
8/10

Q : Which one of the following substances will have hydrogen bonding as one of its intermolecular forces among itself

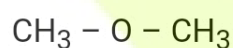
A



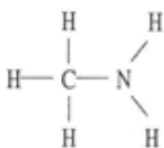
B



C



D



Explanation

$\text{CH}_3\text{-NH}_2$ have hydrogen bonding

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Liquids)



Correct



Unattempted



Incorrect



9/10

Q : The inter-molecular attractive forces vary in the order

A

Water < alcohol < ether

B

Alcohol < water < ether

C

Ether < alcohol < water

D

Ether < water < Alcohol

Explanation

Water > alcohol > ether is the correct order of force of attraction, water and alcohol have hydrogen bonding while ether has London forces.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Liquids)



Correct



Unattempted



Incorrect



10/10

Q : Which property of liquids leads to the development of thermometers

A

Pressure variation of liquids with temperature

B

Liquids are visible

C

Expansion of liquid at high temperature

D

Liquid can not be compressed

Explanation

development of thermometers is due to expansion of liquid at high temperature

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

2

3

4

5

6

7

8

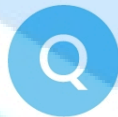
9

10



QUIZZES

Practice Test-2(Liquids)



10 Questions



7 min

Topics

Evaporation and Vapour Pressure, Boiling point and external pressure, Hydrogen Bonding and Physical Properties, Anomalous behavior of water

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

06 : 58



1/10



7 min



Hint

Q : Heat of vaporization is minimum for



HF



HCl



HBr



HI

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 56



2/10



7 min



Hint

Q : If we provide very large amount of heat to a liquid, its vapor pressure at its boiling point



Remains the same



Increases



Decreases



Varies abnormally

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 55



3/10



7 min



Hint

Q : Vapour pressure of liquid is measured when liquid and the vapours are in equilibrium it means that

A

Liquid and vapours have same value of kinetic energy

B

Liquid and vapours have same heat content

C

Rate of evaporation is equal to the rate of condensation

D

Rate of evaporation and condensation are different

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 53



4/10



7 min



Hint

Q : When a liquid is evaporated



Temperature of liquid increases



Temperature of liquid decreases



Liquid molecules becomes more energetic



Both "A" and "C"

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 51



5/10



7 min



Hint

Q : The boiling point of water would be highest at



Murree



Gawadar



Mount everest



Siachin

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 50



6/10



7 min



Hint

Q : Which of the following compound has higher boiling point



H_2O



H_2Se



H_2S



CH_4

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 48



7/10



7 min



Hint

Q : The lowest vapour pressure is of



H_2O



HCl



CH_3OCH_3



$\begin{array}{c} \text{CH}_2 - \text{CH}_2 \\ | \quad \quad | \\ \text{OH} \quad \text{OH} \end{array}$

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 47



8/10



7 min



Hint

Q : Hydrogen bonding links one spiral (DNA) to the other. The H-bonding is more dominant between



C and H



N and H



O and H



O and N

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 45



9/10



7 min



Hint

Q : Acetic acid exists as dimer in benzene due to



Condensation reaction



Hydrogen bonding



Presence of carboxyl group



Presence of hydrogen atom at α - carbon

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 42



10/10



7 min



Hint

Q : Water has maximum density at



0°C



- 4°C



100°C



4°C

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

2

3

4

5

6

7

8

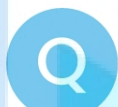
9

10



QUIZ RESULT

Practice Test-2(Liquids)



10



7 min



11-Apr-2021



0 sec



0/10



0.0%

Result Detail

SAEED MDCAT

SAEED MDCAT TEAM



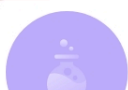
SAEEDMDCAT

| | |
|-------------|----|
| Correct | 0 |
| Incorrect | 0 |
| Unattempted | 10 |

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745



Chemistry

0%



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



1/10

Q : Heat of vaporization is minimum for

A

HF

B

HCl

C

HBr

D

HI

Explanation

HCl have weakest forces which makes HCl most volatile and have lowest heat of vaporization

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



2/10

Q : If we provide very large amount of heat to a liquid, its vapor pressure at its boiling point

A

Remains the same

B

Increases

C

Decreases

D

Varies abnormally

Explanation

Boiling point is depend upon external pressure and intermolecular force

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



3/10

Q : Vapour pressure of liquid is measured when liquid and the vapours are in equilibrium it means that



Liquid and vapours have same value of kinetic energy



Liquid and vapours have same heat content



Rate of evaporation is equal to the rate of condensation



Rate of evaporation and condensation are different

Explanation

Evaporation and condensation are reversible.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



4/10

Q : When a liquid is evaporated

A

Temperature of liquid increases

B

Temperature of liquid decreases

C

Liquid molecules becomes more energetic

D

Both "A" and "C"

Explanation

Evaporation is endothermic.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



5/10

Q : The boiling point of water would be highest at

A

Murree

B

Gawadar

C

Mount everest

D

Siachin

Explanation

Because of high external pressure at Gawadar

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



6/10

Q : Which of the following compound has higher boiling point

A



B



C



D



Explanation

Water has hydrogen bonding

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



7/10

Q : The lowest vapour pressure is of

A



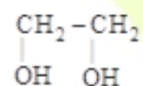
B



C



D



Explanation

Greater the forces of attraction lower the vapour pressure

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



8/10

Q : Hydrogen bonding links one spiral (DNA) to the other. The H-bonding is more dominant between

A

C and H

B

N and H

C

O and H

D

O and N

Explanation

The H-bonding is more dominant between O and H.
Hydrogen bonding is also present between nitrogen and hydrogen.

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



9/10

Q : Acetic acid exists as dimer in benzene due to

A

Condensation reaction

B

Hydrogen bonding

C

Presence of carboxyl group

D

Presence of hydrogen atom at α - carbon

Explanation

Acetic acid form hydrogen bond with its other molecule in non-polar solvent

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



10/10

Q : Water has maximum density at

A

0°C

B

- 4°C

C

100°C

D

4°C

Explanation

Below 4°C empty spaces are created. Above and below 4°C molecules of H₂O are at larger distances as compared to distance at 4°C

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

2

3

4

5

6

7

8

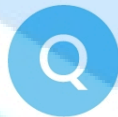
9

10



QUIZZES

Practice Test-1(Solids)



10 Questions



7 min

Topics

Types of solids, Properties of crystalline solids (All),
Crystal lattice and Unit Cell

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

06 : 56



1/10



7 min



Hint

Q : Which is a pseudo solid?



Rock salt



Aluminum nitride



Glue



Graphite

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 55



2/10



7 min



Hint

Q : Glass is called super cooled liquid. The reason is that glass has



Definite volume



Definite shape



Crystalline structure



No crystalline structure

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 53



3/10



7 min



Hint

Q :

Crystalline solids have different properties

I. Allotropy
Polymorphism

II. Isomorphism

III.

Ionic compounds show which of the above properties

A

I, II

B

II, III

C

I, II, III

D

I, III

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 51



4/10



7 min



Hint

Q : Which is not a property of isomorphous solids?



Have same atomic ratio



same crystalline shape



Same chemical property



same geometry of anion

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 48



5/10



7 min



Hint

Q : _____ may be isotropic under ordinary conditions

A

Diamond

B

Borax

C

Bromine

D

Sodium Chloride

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 46



6/10



7 min



Hint

Q : Which property is incorrect about silica



High transparency to light



Very low thermal expansion



Excellent insulator



Soluble in water

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 45



7/10



7 min



Hint

Q : Diamond and graphite are



Isomorphous



Polymorphous



Allotropes



Both "B" and "C"

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 43



Q 8/10

7 min

Hint

Q : In a crystal lattice the correct sequence of bond angles is

A $bc = \alpha, ca = \beta, ab = \gamma$

B $bc = \beta, ca = \alpha, ab = \gamma$

C $bc = \gamma, ca = \beta, ab = \alpha$

D All are possible

SAEED MDCAT

SAEED MDCAT TEAM

f SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 41



9/10



7 min



Hint

Q : The arrangement of particles as a points in a crystal is called



Unit cell



Crystal lattice



Space lattice



Both B and C

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9

06 : 38



10/10



7 min



Hint

Q : Unit cell is the smallest part, has all features of the entire



Molecule



Compound



Atom



Crystal

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

2

3

4

5

6

7

8

9

10



QUIZ RESULT

Practice Test-1(Solids)



10



7 min



11-Apr-2021



0 sec



0/10



0.0%

Result Detail

SAEED MDCAT

SAEED MDCAT TEAM



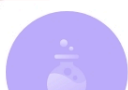
SAEEDMDCAT

| | |
|-------------|----|
| Correct | 0 |
| Incorrect | 0 |
| Unattempted | 10 |

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745



Chemistry

0%



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



1/10

Q : Which is a pseudo solid?

A

Rock salt

B

Aluminum nitride

C

Glue

D

Graphite

Explanation

Glue is amorphous solid

Pseudo solid is also called amorphous solid

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



2/10

Q : Glass is called super cooled liquid. The reason is that glass has

A

Definite volume

B

Definite shape

C

Crystalline structure

D

No crystalline structure

Explanation

Glass is solidified by the process annealing, due to which it has non crystalline structure

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



3/10

Q :

Crystalline solids have different properties

I. Allotropy
Polymorphism

II. Isomorphism

III.

Ionic compounds show which of the above properties

A

I, II

B

II, III

C

I, II, III

D

I, III

Explanation

Ionic solids show isomorphism and polymorphism.
Allotropy shown by element.



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



4/10

Q : Which is not a property of isomorphous solids?

A

Have same atomic ratio

B

same crystalline shape

C

Same chemical property

D

same geometry of anion

Explanation

Isomorphous solids generally have same atomic ratio and crystalline shape but they are chemically different substances e.g. NaNO_3 and KNO_3 are isomorphs of each other. Isomorphous solids do not have same chemical properties.

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



5/10

Q : _____ may be isotropic under ordinary conditions

A

Diamond

B

Borax

C

Bromine

D

Sodium Chloride

Explanation

Bromine exist as liquid at normal temperature so it may be isotropic

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



6/10

Q : Which property is incorrect about silica

A

High transparency to light

B

Very low thermal expansion

C

Excellent insulator

D

Soluble in water

Explanation

Silica is giant structure and insoluble in water.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



7/10

Q : Diamond and graphite are

A

Isomorphous

B

Polymorphous

C

Allotropes

D

Both "B" and "C"

Explanation

Diamond graphite both consist of C-atoms.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



8/10

Q : In a crystal lattice the correct sequence of bond angles is

A

$bc = \alpha, ca = \beta, ab = \gamma$

B

$bc = \beta, ca = \alpha, ab = \gamma$

C

$bc = \gamma, ca = \beta, ab = \alpha$

D

All are possible

Explanation

α -angle lies between side b & c

β -angle lies between side a & c

γ -angle lies between side b & a

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



9/10

Q : The arrangement of particles as a points in a crystal is called

A

Unit cell

B

Crystal lattice

C

Space lattice

D

Both B and C

Explanation

The arrangement of particles as a points in a crystal is called Crystal lattice or Space lattice

SAEED MDCAT

SAEED MDCAT TEAM

f SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

1

2

3

4

5

6

7

8

9



Practice Test-1(Solids)



Correct



Unattempted



Incorrect



10/10

Q : Unit cell is the smallest part, has all features of the entire

A

Molecule

B

Compound

C

Atom

D

Crystal

Explanation

Unit cell is the smallest part, has all features of the entire crystal

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

2

3

4

5

6

7

8

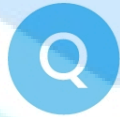
9

10



QUIZZES

Practice Test-2(Liquids)



10 Questions



7 min

Topics

Crystal and their classification, Classification of solids

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

06 : 58



1/10



7 min



Hint

Q : The crystal system for $a \neq b \neq c$ and $\alpha \neq \beta \neq \gamma \neq 90^\circ$



Cubic



Orthorhombic



Tetragonal



Triclinic

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 56



2/10



7 min



Hint

Q : Which one of the following set of substances shows hexagonal close packing structure



Li, Na, K, Rb



Zn, Cd, Mg



Ag, Cu, Au, Al, Fe



NaCl

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 55



3/10



7 min



Hint

Q : Which of the following pair of solids are giant covalent solids?



Zn, Cu



CaO, CsF



AlN, SiC



C₁₀H₈, N₂

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 53



4/10



7 min



Hint

Q : Which one of the following may not be related to ionic compounds



Transition temperature



Isomorphison



Polymorphism



Isomerism

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 51



5/10



7 min



Hint

Q : Ionic solids do not conduct the electrical current because



Ions don't have translatory motion



Free electrons are less



The coordination number of ion is very high



Strong covalent bonds are present in their structure

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 49



6/10



7 min



Hint

Q : Molecular crystals are



Soft



Hard



Highly dense



Closely packed

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 48



7/10



7 min



Hint

Q : The crystals formed due to London's forces are



Ionic



Covalent



Molecular



Metallic

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 46



8/10



7 min



Hint

Q : Crystalline solids are classified on the basis of bonding into



Two types



Seven types



Five types



Four types

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 44



9/10



7 min



Hint

Q : The molecules of CO_2 in dry ice form the



Ionic crystals



Covalent crystals



Molecular crystals



Any type of crystals

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9

06 : 42



10/10



7 min



Hint

Q : Diamond, Silicon carbide are insoluble in most of the solvents because



They have very high lattice energy



They have very big size



They do not interact with the solvent



All of these

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

2

3

4

5

6

7

8

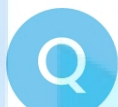
9

10



QUIZ RESULT

Practice Test-2(Liquids)



10



7 min



11-Apr-2021



0 sec



0/10



0.0%

Result Detail

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

| | |
|-------------|----|
| Correct | 0 |
| Incorrect | 0 |
| Unattempted | 10 |

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745



Chemistry

0%



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



1/10

Q: The crystal system for $a \neq b \neq c$ and $\alpha \neq \beta \neq \gamma \neq 90^\circ$

A

Cubic

B

Orthorhombic

C

Tetragonal

D

Triclinic

Explanation

In triclinic system all angles and all lengths are not equal

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



2/10

Q : Which one of the following set of substances shows hexagonal close packing structure

A

Li, Na, K, Rb

B

Zn, Cd, Mg

C

Ag, Cu, Au, Al, Fe

D

NaCl

Explanation

Zn, Cd, Mg is the set of substances shows hexagonal close packing structure.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



3/10

Q : Which of the following pair of solids are giant covalent solids?

A

Zn, Cu

B

CaO, CsF

C

AlN, SiC

D

C₁₀H₈, N₂

Explanation

AlN, SiC are giant covalent solids.

Zn, Cu are metallic solids

CaO, CsF are ionic solids

C₁₀H₈ is molecular solids

N₂ is gas at room temperature



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



4/10

Q : Which one of the following may not be related to ionic compounds

A

Transition temperature

B

Isomorphison

C

Polymorphism

D

Isomerism

Explanation

In ionic compound there is non-directional forces so did not show isomerism

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



5/10

Q : Ionic solids do not conduct the electrical current because

A

Ions don't have translatory motion

B

Free electrons are less

C

The coordination number of ion is very high

D

Strong covalent bonds are present in their structure

Explanation

Ionic bond is very strong so, it does not have translatory motion

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



6/10

Q : Molecular crystals are

A

Soft

B

Hard

C

Highly dense

D

Closely packed

Explanation

Molecular solids have very weak intermolecular forces due to which molecular solids are soft

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



8/10

Q : Crystalline solids are classified on the basis of bonding into

A

Two types

B

Seven types

C

Five types

D

Four types

Explanation

Ionic bond

Covalent solid

Molecular solid

Metallic solid



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



9/10

Q : The molecules of CO_2 in dry ice form the

A

Ionic crystals

B

Covalent crystals

C

Molecular crystals

D

Any type of crystals

Explanation

Solidified CO_2 is non polar molecule and has L.D.F.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB)SAEED MDCAT

03418729745

1

2

3

4

5

6

7

8

9



Practice Test-2(Liquids)



Correct



Unattempted



Incorrect



10/10

Q : Diamond, Silicon carbide are insoluble in most of the solvents because

A

They have very high lattice energy

B

They have very big size

C

They do not interact with the solvent

D

All of these

Explanation

Non-polar and Macromolecules having giant structure.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

www.saeedmdcat.com

FB) SAEED MDCAT
03418729745

2

3

4

5

6

7

8

9

10